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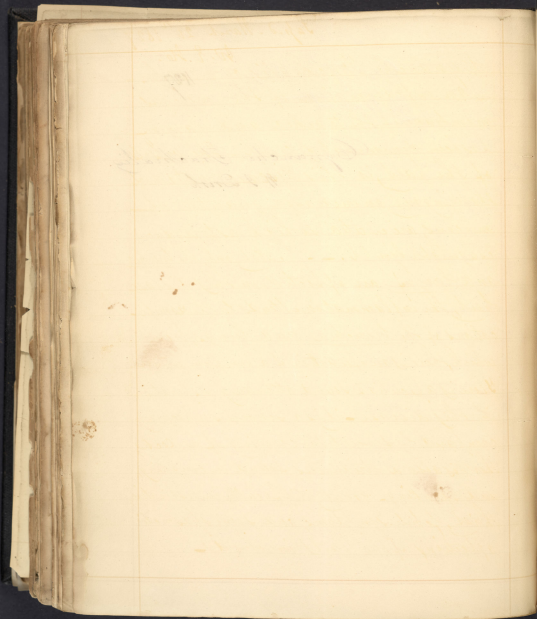
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Dev. 7th 1826

1127

100 Walnut

Cynanche Trachealis.
#1 Irish



Pap. 2 - March 20th 1827 /

W. 8. No.

Cynanche Trachealis, or Croup.

An inflammation of the mucous membrane of the trachea and larynx has been denominated croup. The vessels of the part, in this disease, instead of throwing out an increased quantity of mucus, are excited so high as to produce coagulable lymph. -- Not only the trachea and larynx are affected in this disease, but the inflammation extends to the ramifications of the bronchia and lungs, from which, there is an exudation of a puriform nature. There is a peculiar sound attending inspiration in this disease - it is a sonorous wheezing, compared by some to the crowing of a cock; there is also a stridulous sound in coughing, and speaking - great difficulty in respiration, thirst, febrile symptoms, and a some spasmodic affection of the parts involved.

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The disease has been divided by some into two kinds, the primary or idiopathic. When it is seated primarily in the trachea, bronchia, and surface of the lungs; symptomatic when it occurs as the consequence of some previous disease such as Measels, Scarlatina &c. ---

Diagnosicks. - Croup may be confounded with acute Asthma, but by the following symptoms we can generally distinguish them. - In Croup there is seldom any remission, which generally occurs in Asthma: there is in Asthma very little cough: in Croup the voice shrill and small, the pulse full and strong, urine high coloured. - In Asthma the urine is limpid, the voice croaking. - -

The inflammation in this disease must be peculiar, for there is generally a convulsion on the surface of the Trachea which would be very common, if it were a consequence of

every inflammation of these parts. - That there is a Membrane formed in this inflammation, cannot be denied, for Dr & Physick has presented to the Wistar Museum with a specimen of the kind. The matter of which this substance is formed, possesses different properties from those of Mucous, or from that matter which is thrown out in common inflammations of the mucous membrane; and can only be accounted for as was by Dr Hunter, that is, it is not a secretion from the mucous glands, but that is thrown out by the capillary arteries, similar to an exudation thrown out in inflammation of the internal mucous membrane ---

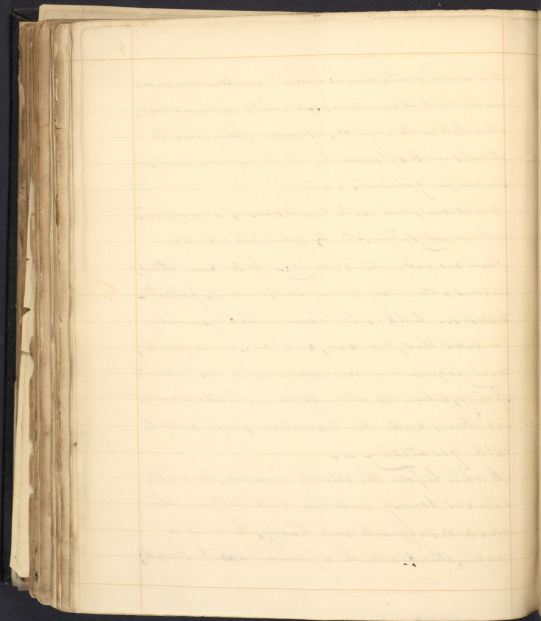
The new membrane which is formed in Croup, is generally considered to be composed of nothing but coagulable lymph -

Croup sometimes prevails epidemically, yet

it is never contagious: some families are more liable to it than others, - a child having been attacked with it once, is more obnoxious to attacks of it afterward, but they are not so severe in general. -

Children from one to ten years of age appear to be most subject to it, yet those who are older are not exempt from it; - it seldom attacks persons after they arrive at the age of puberty. Causes. - Cold is the cause which generally produces this disease, and it is, consequently, most frequent of occurrence in the Winter and Spring, when the atmosphere is loaded with moisture and the transition from heat to cold greatest. - - -

A while before the attack comes on, the child appears drowsy, inaction and fretful, the eyes are suffused and hazy, there is a cough, attended with a peculiar shrill sound;



and this in the course of two days becomes very violent and troublesome; the fits of coughing agitate the patient very much, the face is flushed and swelled, a general shivering takes place; at the close of each fit there is a kind of convulsive endeavour to resume respiration: as the disease advances, the difficulty of breathing increases: there is inflammation and swelling of the tonsils, the head is thrown & back in the agony of attempting to escape suffocation; respiration is accompanied with a peculiar hissing sound, similar to that produced by drawing up the piston in a dry pump: the cough is generally dry, but sometimes there is spit up a purulent matter apparently consisting of membranes: there is great restlessness, thirst, a sense of heat all over the whole body, and frequency of pulse: there is sometimes somnolence

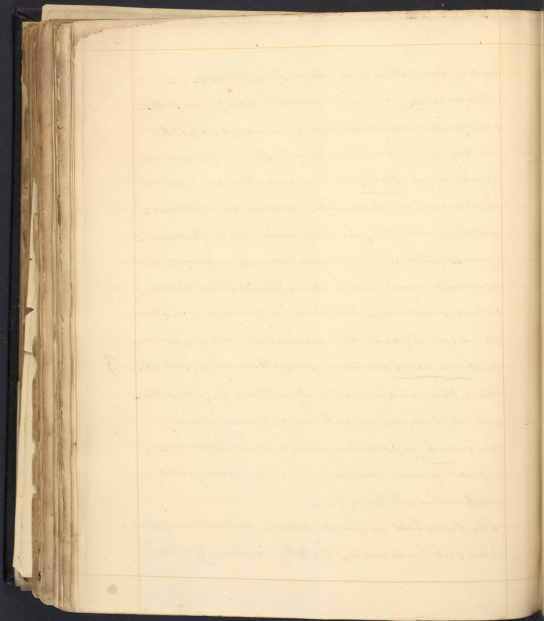
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and exacerbations of these symptoms.---

Prognosis. Croup is a very dangerous disease, and will sometimes destroy the child quickly by suffocation, either by a spasmodic affection of Glotis, or by a quantity of matter blocking up the Bronchia. But when it terminates in health, the inflammation terminates by resolution, the spasms cease, respiration becomes more free, the expectoration becomes copious and easy, the voice assumes its natural sound, and the membrane that was formed on the Trachea is gradually dissolved. }

But the unfavourable symptoms are, considerable difficulty in breathing, great anxiety, frequent fits of coughing, no expectoration, violent fevers, the pulse becoming irregular and intermitting.---

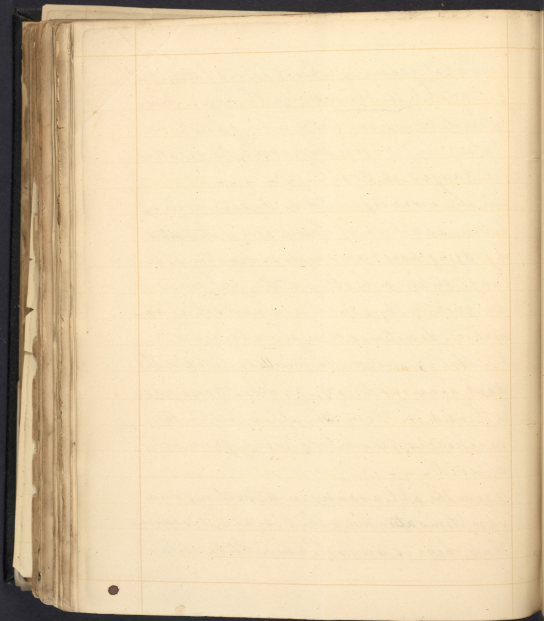
The duration of the disease is various; sometimes it terminates fatally in twenty four



hours, but generally, when it proves fatal, it is
protracted to the third or fourth day. -- It is
estimated that one half of the cases prove
fatal; the younger the patient, the greater
the danger of death. - - - - -

The appearances exhibited on dissection are as
follow, as noticed by those whose opportunities
of judging have been ample. -- Sometimes the
lungs are in a healthy state, but more
frequently they manifest marks of inflam-
mation. Sometimes there are adhesions to
the thorax; sometimes the airvells are filled with
dark gramous blood, - at other times pus
is found in them: The upper part of the
trachea is found to be most generally
affected. - - -

From the appearances on dissection, and
symptoms attending the disease, it is obvious
that there is an inflammation of the

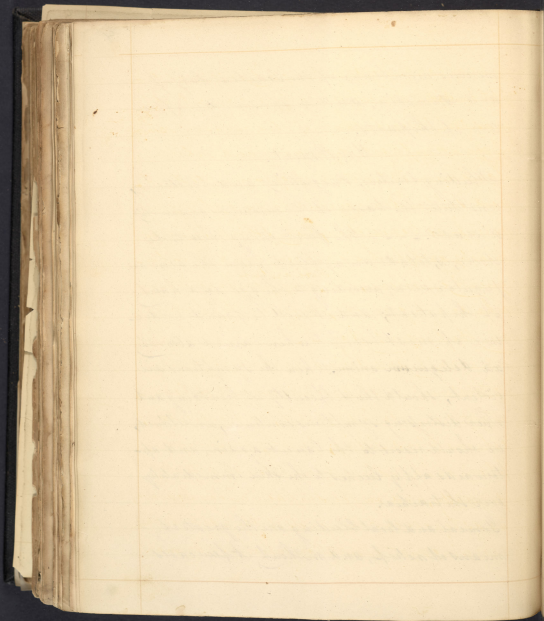


mucous membrane of the Trachea, Larynx and Bronchia, and a spasmodic affection of the parts. ---

Treatment.

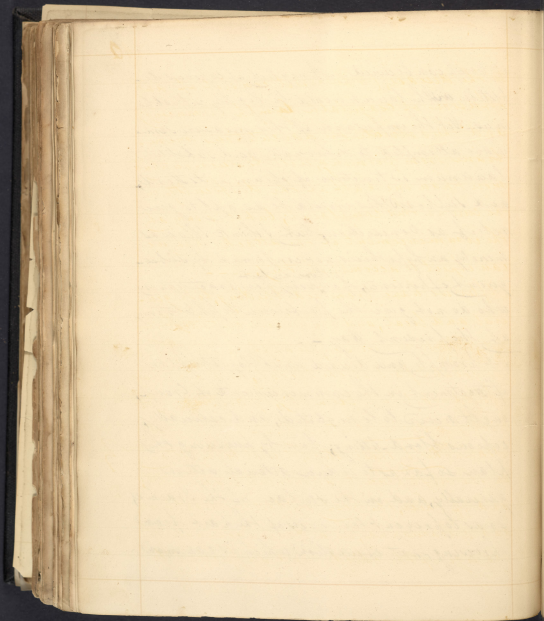
Bleeding, Emetics, Purgatives and blistering constitute the basis of the curative means in this disease. --- The first thing then to be done, is, to take away blood from the arm or jugular vein, according to the age and habit of the patient; and it will be found productive of most benefit when carried almost ad deliquium animi. When the symptoms are violent, should the difficulty of breathing and other distressing symptoms continue, unrelieved, we should resort to the lancet again, and afterwards apply leeches to the skin immediately over the trachea.

General and local bleeding are the greatest means of relief, and without it few cases



of Croup can be cured. A neglect of copious de-
 pletion ~~with~~ the lancet would be highly culpable
 in us. Yet the importance of this measure I should
 have attempted to depreciate, and substitute
 laudanum or tincture of opium in its stead,
 and supposed this would be as apt to give
 relief as Venesection. But I think this was
 merely an hypothesis not confirmed by subse-
 quent experience, ^{there are but} for very few practitioners
 who do not give the preference to phlebotomy
 at the present day - -

A prompt and decided antiphlogistic plan
 of treatment in the commencement of Croup,
 ought never to be neglected, and especially
 copious blood-letting; for by pursuing this
 plan so far as to reduce arterial action
 generally, and on the surface of the Trachea,
 so as to prevent the vessels of the part from
 throwing that exudation which is common



to the disease, (whether it consist of an effusion of coagulable lymph and mucus) and thus obviate the adventitious membrane from forming, will be surmounting more than one half of the difficulty in the cure of this complaint; but it is only at the commencement of the attack that we can expect to accomplish this.----

After we have promised the dying, both general and local, and the disease continues obstinate, it will be necessary to apply a blister over the greater part of the throat, and a discharge should be kept up from this, by dressing it with the sabine ointment.----

Having kept these steps, it will be important 3 in the next place to administer an emetic; and of these, the best are tartarised antimony, and Specacuanha, in a dose agreeing with the age of the child and sufficient to

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produce copious vomiting; this will be found to give great relief by throwing off a quantity ofropy mucus. --

It will be beneficial to attend to position. The child will be more easy and rest better, in an erect position; and it will also prevent stiffocation --

Throughout the whole course of the complaint the strictest antiphlogistic regimen must be enforced on the patient, and the bowels should be kept in a relaxed state by the frequent exhibition of purgatives. --

When the intestines are in an inactive state and bound up, the more active cathartics should be given, and for this purpose the sublimiate of mercury or Calomel will be found an excellent medicine, either alone or in combination with other cathartics such as Jalap, rhubarb &c. in dose.

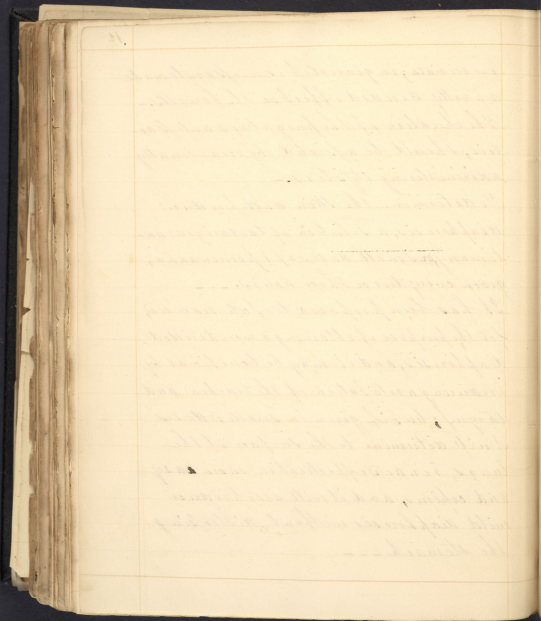
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prose nata; in general it is necessary to make a pretty decided effect on the bowels. -

The operation of the purgatives antispasmodic, should be assisted by occasionally administering clysters. -

To determine the skin and produce diaphoresis, a solution of tartarized antimony, ~~and~~ small doses of ipecacuanha, given every two or three hours. ---

It has been proposed to give nuxvom, for the purpose of obtaining a more decided diaphoresis, and it may be beneficial by procuring a relaxation of the trachea and larynx; but if given in smaller doses it will determine to the surface of the lungs, render expectoration more easy and copious, and it will also produce mild diaphoresis without distressing the stomach ---



The warm bath is highly recommended, and general experience asserts it to be very salutary in its effects, by relaxing the system generally, and producing copious sweating. The bath should be between ninety and one hundred degrees of Fahrenheit - - - -

By the use of the means above enumerated, the progress of the disease can be generally averted, if employed during the first day or two; but if we negligently trust to inert and trifling remedies, we will ^{be} forced to witness a spectacle, that will reflect disgrace upon our character, and recognize death as the offspring of apathy and inactive practice. - - How necessary then, is it for us to be prompt and decided, in the use of the measures recommended in this disease, for why should not croup in its early stage, be as much

The first thing I noticed when I stepped
 out of the car was a cold, crisp
 feeling in the air, like a blanket
 of snow. I had heard that the
 weather was bad, but I didn't
 expect it to be so cold. I pulled
 my coat tighter around me and
 walked towards the entrance of the
 building. The door was open, and
 I saw a group of people standing
 outside. They were all looking
 at me with curiosity. I felt
 a little shy, but I walked
 towards them. They all smiled
 and welcomed me. I felt like
 I had found a new home.




under the the control of copious bleeding, purgatives and emetics, as most other inflammations ---

There is generally in this disease throughout its course, a loagment of mucous or lymph in the trachea, which if it were permitted to remain, would form into a membrane; consequently, it will be highly necessary to administer an emetic once or twice a day, to obviate such a tendency, and for this purpose tartar emetic, or Dr. Boer's hives Syrup, would be very appropriate, as it has, united in itself, all the properties of an emetic and purgative, and also determines to the surface of the body. - The dose is from ten drops to a tea-spoon full, according to the age of the patient, and violence of symptoms. -

Digitals has been recommended as a

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remedy in this complaint, and it may prove
 serviceable, as it has a tendency to reduce
 arterial action, and is thought to possess
 some antispasmodic effect: the dose for
 children is from five drops, repeated
 according to circumstances.

It is proposed to inhale the vapour of ether
 mixed with warm water, to relax spasm
 and increase expectoration. -- The subma-
 nate of mercury, given in doses sufficient
 to vomit tolerably free, has a very salutary
 effect, and some think it acts almost
 specifically in this disease. 

Some have recommended the employment
 of mercury so as to produce salivation, as
 if croup was a disease of duration; but,
 how very few are the cases of croup, that
 would not terminate fatally before a
 salivation could be produced, if this remedy

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[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

was used to the exclusion of others more instant in this operation. - The justly celebrated Dr Rush recommended the submuriate of mercury in this disease, but it is generally believed now, that it is productive of no great utility, except when it has an emetic or purgative effect. -

Dr Hamilton informs us, that he has never used the submuriate of mercury in any case, before the lividness of the lips came on: that if it did not prove successful, his mode of administration was, to place the patient in a bath of warm water about ninety degrees Fahrenheit, and give the colic in doses of from one to five grains, four or five times a day, until the respiration became easy; I suspect however, that the warm bath was productive of more benefit than the mercury, in this case; there is no doubt

but that mercury would be a good remedy in Croup, if its own action could be established, previous to the termination of the disease: and certainly it should be given so as to co-operate with other remedies directly antiphlogistic. — — —

When the child is likely to be overcome by suffocation, we should administer a stimulatory, such as strong tobacco snuff, and introduce it into the nostrils by means of a quill, or give an emetic that is very prompt in its action, as the sulphate of zinc or copper, or inject a solution of tartar emetic into a vein. — — — B

When copious depletion by bleeding, both general and local, by purging and puking, and blisters, have been premised, and the inflammatory action subsided, and the disease owing its existence to a spasmodic

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The first thing I saw when I stepped
out of the train was a vast
open plain. The air was
clear and fresh. I felt
a sense of freedom and
adventure. The landscape was
beautiful and I was
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affection of the parts, we may administer opium or laudanum, alone or combined with Speccanaka, in such doses as the age of the patient will admit---

The operation of Tracheotomy has been proposed. When every other means have failed and this becomes necessary, it is recommended to make the incision between the thyroid and cricoid cartilages, in that membranous space which exists there; and afterwards to introduce the handle of the knife, and turn it round, so as to separate the edges of the wound; but when it is necessary to make the opening more permanent, the incision should be a crucial one, and the four angles cut off; or a tube of silver or common quill cut so as to make a free opening through it, and its edges should be coated with Sealing wax so as to prevent it from irritating the trachea;

to which tube or quill should be attached
straps of linen, for the purpose of passing
round the neck, and confining the tube
in the orifice made in the trachea. ---

But this operation very often fails, and in
fact seldom succeeds, though performed
under judicious circumstances, and by
our most skillful surgeons. ---

Wilson P. Driskill M.D.



